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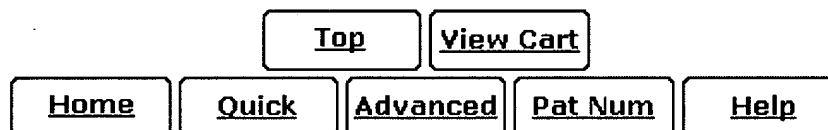
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- 12 [6,721,706](#)  [Environment-responsive user interface/entertainment device that simulates personal interaction](#)
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- 24 [6,394,952](#)  [Point of care diagnostic systems](#)
- 25 [6,336,109](#)  [Method and apparatus for inducing rules from data classifiers](#)
- 26 [6,335,361](#)  [Method of treating benign forgetfulness](#)
- 27 [6,267,722](#)  [Point of care diagnostic systems](#)
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- 30 [6,233,570](#)  [Intelligent user assistance facility for a software program](#)
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- 32 [D432,244](#)  [Device for encasing an assay test strip](#)
- 33 [6,098,062](#)  [Argument structure hierarchy system and method for facilitating analysis and decision-making processes](#)
- 34 [6,021,403](#)  [Intelligent user assistance facility](#)
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1 [Content-based filtering & collaborative filtering: A nonparametric hierarchical bayesian framework for information filtering](#)

Kai Yu, Volker Tresp, Shipeng Yu

 July 2004 **Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04**

Publisher: ACM Press

 Full text available: [pdf\(425.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Information filtering has made considerable progress in recent years. The predominant approaches are content-based methods and collaborative methods. Researchers have largely concentrated on either of the two approaches since a principled unifying framework is still lacking. This paper suggests that both approaches can be combined under a *hierarchical Bayesian framework*. Individual content-based user profiles are generated and collaboration between various user models is achieved via a co ...

Keywords: collaborative filtering, content-based filtering, dirichlet process, nonparametric bayesian modelling

2 [Machine learning in automated text categorization](#)

Fabrizio Sebastiani

 March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(524.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from a set of preclassified documents, the characteristics of the categories. ...

Keywords: Machine learning, text categorization, text classification

3 [Bayesian analysis for simulation input and output](#)

Stephen E. Chick

 December 1997 **Proceedings of the 29th conference on Winter simulation**

Publisher: ACM Press

 Full text available: [pdf\(858.19 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 Decision making under uncertainty

Judea Pearl

March 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 1**Publisher:** ACM PressFull text available: pdf(189.76 KB) Additional Information: [full citation](#), [references](#), [index terms](#)5 Strategic directions in artificial intelligence

Jon Doyle, Thomas Dean

December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4**Publisher:** ACM PressFull text available: pdf(243.02 KB) Additional Information: [full citation](#), [references](#), [index terms](#)6 Automated negotiation for order transaction of injection mold manufacturer

Young Jae Park, Hyung Rim Choi, Hyun Soo Kim

September 2003 **Proceedings of the 5th international conference on Electronic commerce ICEC '03****Publisher:** ACM PressFull text available: pdf(475.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today, there are several markets in cyber space where companies trade electronically due to the development of Information Technology. On the other hand, the most important thing in trades is negotiation. So, in order to support current business practices as well as new ones on the Internet, electronic commerce systems need an ability to negotiate. In this paper, proposed is a method by which a seller can be supported by an agent which plays a role in negotiation process among small and medium c ...

Keywords: and electronic commerce, automated negotiation, intelligent agent

7 Metaheuristics in combinatorial optimization: Overview and conceptual comparison

Christian Blum, Andrea Roli

September 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 3**Publisher:** ACM PressFull text available: pdf(431.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The field of metaheuristics for the application to combinatorial optimization problems is a rapidly growing field of research. This is due to the importance of combinatorial optimization problems for the scientific as well as the industrial world. We give a survey of the nowadays most important metaheuristics from a conceptual point of view. We outline the different components and concepts that are used in the different metaheuristics in order to analyze their similarities and differences. Two v ...

Keywords: Metaheuristics, combinatorial optimization, diversification., intensification

8 Research papers: optimization: Towards a robust query optimizer: a principled and practical approach

Brian Babcock, Surajit Chaudhuri

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data****Publisher:** ACM PressFull text available: pdf(551.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Research on query optimization has focused almost exclusively on reducing query

execution time, while important qualities such as consistency and predictability have largely been ignored, even though most database users consider these qualities to be at least as important as raw performance. In this paper, we explore how the query optimization process can be made more robust, focusing on the important subproblem of cardinality estimation. The robust cardinality estimation technique that we propo ...

9 Making systems sensitive to the user's time and working memory constraints



 Anthony Jameson, Ralph Schäfer, Thomas Weis, André Berthold, Thomas Weyrath
December 1998 **Proceedings of the 4th international conference on Intelligent user interfaces**

Publisher: ACM Press

Full text available:  [pdf\(1.49 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Bayesian networks, adaptive systems, natural language, time pressure, user modeling, working memory

10 Multi Relational Data Mining (MRDM): Probabilistic logic learning



 Luc De Raedt, Kristian Kersting
July 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 1

Publisher: ACM Press


Full text available:  [pdf\(1.98 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The past few years have witnessed an significant interest in probabilistic logic learning, i.e. in research lying at the intersection of probabilistic reasoning, logical representations, and machine learning. A rich variety of different formalisms and learning techniques have been developed. This paper provides an introductory survey and overview of the state-of-the-art in probabilistic logic learning through the identification of a number of important probabilistic, logical and learning concept ...

Keywords: data mining, inductive logic programming, machine learning, multi-relational data mining, probabilistic reasoning, uncertainty

11 Stability and distributed scheduling algorithms




 John A. Stankovic
March 1985 **Proceedings of the 1985 ACM thirteenth annual conference on Computer Science**

Publisher: ACM Press

Full text available:  [pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 Sensor networks: Sensor-assisted wi-fi indoor location system for adapting to environmental dynamics



 Yi-Chao Chen, Ji-Rung Chiang, Hao-hua Chu, Polly Huang, Arvin Wen Tsui
October 2005 **Proceedings of the 8th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems MSWiM '05**

Publisher: ACM Press

Full text available:  [pdf\(544.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wi-Fi based indoor location systems have been shown to be both cost-effective and accurate, since they can attain meter-level positioning accuracy by using existing Wi-Fi infrastructure in the environment. However, two major technical challenges persist for current Wi-Fi based location systems, instability in positioning accuracy due to changing environmental dynamics, and the need for manual offline calibration during site survey. To address these two challenges, three environmental factors (pe ...

Keywords: adaptive system, indoor location system, performance evaluation, sensors

13 Inductive Inference: Theory and Methods

Dana Angluin, Carl H. Smith

September 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 3**Publisher:** ACM Press

Full text available: pdf(2.51 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**14 Adaptive Online Prediction by Following the Perturbed Leader**

Marcus Hutter, Jan Poland

September 2005 **The Journal of Machine Learning Research**, Volume 6**Publisher:** MIT Press

Full text available: pdf(191.61 KB)

Additional Information: [full citation](#), [abstract](#)

When applying aggregating strategies to Prediction with Expert Advice (PEA), the learning rate must be adaptively tuned. The natural choice of $\sqrt{\text{complexity/current loss}}$ renders the analysis of Weighted Majority (WM) derivatives quite complicated. In particular, for arbitrary weights there have been no results proven so far. The analysis of the alternative Follow the Perturbed Leader (FPL) algorithm from Kalai and Vempala (2003) based on Hannan's algorithm is easier. We derive loss bounds for ...

15 Adaptive stochastic manpower scheduling

Elmira Popova, David Morton

December 1998 **Proceedings of the 30th conference on Winter simulation****Publisher:** IEEE Computer Society Press

Full text available: pdf(88.93 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)**16 A survey of Web metrics**

Devanshu Dhyani, Wee Keong Ng, Sourav S. Bhowmick

December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4**Publisher:** ACM Press

Full text available: pdf(289.28 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The unabated growth and increasing significance of the World Wide Web has resulted in a flurry of research activity to improve its capacity for serving information more effectively. But at the heart of these efforts lie implicit assumptions about "quality" and "usefulness" of Web resources and services. This observation points towards measurements and models that quantify various attributes of web sites. The science of measuring all aspects of information, especially its storage and retrieval or ...

Keywords: Information theoretic, PageRank, Web graph, Web metrics, Web page similarity, quality metrics

17 Localization: Localization for mobile sensor networks

Lingxuan Hu, David Evans

September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking****Publisher:** ACM Press

Full text available: pdf(263.13 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many sensor network applications require location awareness, but it is often too expensive to include a GPS receiver in a sensor network node. Hence, localization schemes for sensor networks typically use a small number of seed nodes that know their location and

protocols whereby other nodes estimate their location from the messages they receive. Several such localization techniques have been proposed, but none of them consider mobile nodes and seeds. Although mobility would appear to make local ...

Keywords: Monte Carlo localization, localization, mobility, sensor networks

18 Special session on belief change: Planning, learning and coordination in multiagent decision processes

Craig Boutilier

March 1996 **Proceedings of the 6th conference on Theoretical aspects of rationality and knowledge**

Publisher: Morgan Kaufmann Publishers Inc.

Full text available:  pdf(1.75 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

There has been a growing interest in AI in the design of multiagent systems, especially in multiagent cooperative planning. In this paper, we investigate the extent to which methods from single-agent planning and learning can be applied in multiagent settings. We survey a number of different techniques from decision-theoretic planning and reinforcement learning and describe a number of interesting issues that arise with regard to coordinating the policies of individual agents. To this end, we ...


19 Efficient reasoning



Russell Greiner, Christian Darken, N. Iwan Santoso

March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1

Publisher: ACM Press

Full text available:  pdf(445.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Many tasks require "reasoning"—i.e., deriving conclusions from a corpus of explicitly stored information—to solve their range of problems. An ideal reasoning system would produce all-and-only the correct answers to every possible query, produce answers that are as specific as possible, be expressive enough to permit any possible fact to be stored and any possible query to be asked, and be (time) efficient

Keywords: efficiency trade-offs, soundness/completeness/expressibility

20 Cluster ensemble and its applications in gene expression analysis

Xiaohua Hu, Ilhoi Yoo

January 2004 **Proceedings of the second conference on Asia-Pacific bioinformatics - Volume 29 CRPIT '04**

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(377.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Huge amount of gene expression data have been generated as a result of the human genomic project. Clustering has been used extensively in mining these gene expression data to find important genetic and biological information. Obtaining high quality clustering results is very challenging because of the inconsistency of the results of different clustering algorithms and noise in the gene expression data. Many clustering algorithms are available and different clustering algorithms may generate diff ...

Keywords: cluster ensemble, gene expression analysis, graph partition



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21 [PSGEA contributions: A review of adaptive population sizing schemes in genetic algorithms](#)



Fernando G. Lobo, Cláudio F. Lima

 June 2005 **Proceedings of the 2005 workshops on Genetic and evolutionary computation GECCO '05**

Publisher: ACM Press

Full text available: pdf(156.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper reviews the topic of population sizing in genetic algorithms. It starts by revisiting theoretical models which rely on a facetwise decomposition of genetic algorithms, and then moves on to various self-adjusting population sizing schemes that have been proposed in the literature. The paper ends with recommendations for those who design and compare adaptive population sizing schemes for genetic algorithms.

Keywords: genetic algorithms, parameter setting, population sizing

22 [Similarity querying II: QCluster: relevance feedback using adaptive clustering for content-based image retrieval](#)



Deok-Hwan Kim, Chin-Wan Chung

 June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(2.15 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The learning-enhanced relevance feedback has been one of the most active research areas in content-based image retrieval in recent years. However, few methods using the relevance feedback are currently available to process relatively complex queries on large image databases. In the case of complex image queries, the feature space and the distance function of the user's perception are usually different from those of the system. This difference leads to the representation of a query with multiple ...

Keywords: classification, cluster-merging, content-based image retrieval, image database, relevance feedback

23 [Automatically characterizing large scale program behavior](#)



Timothy Sherwood, Erez Perelman, Greg Hamerly, Brad Calder

 October 2002 **ACM SIGARCH Computer Architecture News , ACM SIGOPS Operating Systems Review , ACM SIGPLAN Notices , Proceedings of the 10th international conference on Architectural support for programming**

languages and operating systems ASPLOS-X, Volume 30 , 36 , 37 Issue 5 , 5 , 10**Publisher:** ACM PressFull text available:  pdf(1.54 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Understanding program behavior is at the foundation of computer architecture and program optimization. Many programs have wildly different behavior on even the very largest of scales (over the complete execution of the program). This realization has ramifications for many architectural and compiler techniques, from thread scheduling, to feedback directed optimizations, to the way programs are simulated. However, in order to take advantage of time-varying behavior, we must first develop the analy ...

24 Competitive solutions for online financial problems

Ran El-Yaniv

March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1**Publisher:** ACM PressFull text available:  pdf(331.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article surveys results concerning online algorithms for solving problems related to the management of money and other assets. In particular, the survey focuses on search, replacement, and portfolio selection problems

25 Privacy through pseudonymity in user-adaptive systems

Alfred Kobsa, Jörg Schreck

May 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 2**Publisher:** ACM PressFull text available:  pdf(881.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

User-adaptive applications cater to the needs of each individual computer user, taking for example users' interests, level of expertise, preferences, perceptual and motoric abilities, and the usage environment into account. Central user modeling servers collect and process the information about users that different user-adaptive systems require to personalize their user interaction. Adaptive systems are generally better able to cater to users the more data their user modeling systems collect and ...

Keywords: Chaum mix, KQML, User modeling, access control, anonymity, encryption, personal information, personalization, privacy, pseudonymity, reference model, secrecy, security, user-adaptive systems

26 A survey on wavelet applications in data mining

Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara



December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2**Publisher:** ACM PressFull text available:  pdf(330.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewed. The paper concludes by discussing the impact of wavelets on data mining research an ...

27 Cost/benefit based adaptive dialog: case study using empirical medical practice norms and intelligent split menus

Jim Warren

January 2001 **Australian Computer Science Communications , Proceedings of the 2nd Australasian conference on User interface AUIC '01**, Volume 23 Issue 5**Publisher:** IEEE Computer Society , IEEE Computer Society Press

Full text available:  [pdf\(843.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)
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The notion of an adaptive user interface, one that accommodates user needs based on knowledge of the task at hand, is compelling but difficult to make practical. This paper examines models of the utility (as balancing of cost and benefit) in the initiation of task-specific dialog based on conditional probability of user goals in context. Illustrations in this paper are based on an empirical model of General Practice (GP) medicine as derived from a large database of GP/patient encounters. Applica ...

28 Learning evaluation functions to improve optimization by local search

Justin Boyan, Andrew W. Moore

September 2001 **The Journal of Machine Learning Research**, Volume 1

Publisher: MIT Press

Full text available:  [pdf\(643.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

This paper describes algorithms that learn to improve search performance on large-scale optimization tasks. The main algorithm, STAGE, works by learning an evaluation function that predicts the outcome of a local search algorithm, such as hillclimbing or Walksat, from features of states visited during search. The learned evaluation function is then used to bias future search trajectories toward better optima on the same problem. Another algorithm, X-STAGE, transfers previously learned evaluation ...

29 A review of vessel extraction techniques and algorithms



Cemil Kirbas, Francis Quek

June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(8.06 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Vessel segmentation algorithms are the critical components of circulatory blood vessel analysis systems. We present a survey of vessel extraction techniques and algorithms. We put the various vessel extraction approaches and techniques in perspective by means of a classification of the existing research. While we have mainly targeted the extraction of blood vessels, neurovascular structure in particular, we have also reviewed some of the segmentation methods for the tubular objects that show ...

Keywords: Magnetic resonance angiography, X-ray angiography, medical imaging, neurovascular, vessel extraction

30 Video retrieval: Semantic video classification by integrating flexible mixture model with adaptive EM algorithm



Jianping Fan, Hangzai Luo, Xiaodong Lin

November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**

Publisher: ACM Press

Full text available:  [pdf\(631.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital video now plays an important role in medical education and healthcare, but our ability to automatic video indexing at semantic level is currently primitive. In this paper, we propose a novel framework to enable more effective semantic video classification and indexing in a specific surgery education video domain. Specifically, this framework includes: (a) A novel semantic-sensitive video content characterization and representation framework by using **principal video shots and th ...**

Keywords: adaptive EM algorithm, flexible mixture model, principal video shots, semantic video classification

31 Face recognition: A literature survey

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4**Publisher:** ACM Press

Full text available: pdf(4.28 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification**32** The subspace information criterion for infinite dimensional hypothesis spaces

Masashi Sugiyama, Klaus-Robert Müller

March 2003 **The Journal of Machine Learning Research**, Volume 3**Publisher:** MIT Press

Full text available: pdf(532.09 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A central problem in learning is selection of an appropriate model. This is typically done by estimating the *unknown* generalization errors of a set of models to be selected from and then choosing the model with minimal generalization error estimate. In this article, we discuss the problem of model selection and generalization error estimation in the context of kernel regression models, e.g., kernel ridge regression, kernel subset regression or Gaussian process regression. Previously, a no ...

Keywords: Gaussian processes, cross-validation, finite sample statistics, generalization error, kernel regression, model selection, reproducing kernel Hilbert space, subspace information criterion, unbiased estimators**33** Qualitative decision making in adaptive presentation of structured information

Ronen I. Brafman, Carmel Domshlak, Solomon E. Shimony

October 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 4**Publisher:** ACM Press

Full text available: pdf(6.00 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a new approach for adaptive presentation of structured information, based on preference-based constrained optimization techniques rooted in qualitative decision-theory. In this approach, document presentation is viewed as a configuration problem whose goal is to determine the optimal presentation of a document, while taking into account the preferences of the content provider, viewer interaction with the browser, and, possibly, some layout constraints. The preferences of the content ...

Keywords: Adaptive information presentation, preference representation, qualitative decision theory**34** On reasoning from data

David Waltz, Simon Kasif

September 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 3**Publisher:** ACM Press

Full text available: pdf(362.78 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

35 Sequential sampling procedures for query size estimation

Peter J. Haas, Arun N. Swami

June 1992 **ACM SIGMOD Record , Proceedings of the 1992 ACM SIGMOD international conference on Management of data SIGMOD '92**, Volume 21 Issue 2**Publisher:** ACM Press

Full text available: pdf(1.09 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We provide a procedure, based on random sampling, for estimation of the size of a query result. The procedure is sequential in that sampling terminates after a random number of steps according to a stopping rule that depends upon the observations obtained so far. Enough observations are obtained so that, with a pre-specified probability, the estimate differs from the true size of the query result by no more than a prespecified amount. Unlike previous sequential estimation procedures for que ...

36 Adaptive methods for netlist partitioning

Wray L. Buntine, Lixin Su, A. Richard Newton, Andrew Mayer

November 1997 **Proceedings of the 1997 IEEE/ACM international conference on Computer-aided design****Publisher:** IEEE Computer Society

Full text available: pdf(178.27 KB)

[Publisher Site](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An algorithm that remains in use at the core of many partitioning systems is the Kernighan-Lin algorithm and a variant the Fidducia-Matheysse (FM) algorithm. To understand the FM algorithm we applied principles of data engineering where visualization and statistical analysis are used to analyze the run-time behavior. We identified two improvements to the algorithm which, without clustering or an improved heuristic function, bring the performance of the algorithm near that of more sophisticated ...

Keywords: placement and routing, partitioning, Fidducia-Matheysse algorithm, stochastic optimization

37 Learning Bayesian classification rules through genetic algorithms

Christoph F. Eick, Daw Jong

December 1993 **Proceedings of the second international conference on Information and knowledge management****Publisher:** ACM Press

Full text available: pdf(848.77 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)**38** Short Papers: Leveraging a better interface language to simplify adaptation

Joshua Introne, Richard Alterman

January 2004 **Proceedings of the 9th international conference on Intelligent user interface****Publisher:** ACM Press

Full text available: pdf(201.42 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe an approach to building adaptive groupware systems. This approach encompasses a methodology that reduces the complexity of inferring user intent by identifying a domain-specific interface language that both supports the user's maintenance of common ground, and can be used to drive an adaptive component. Our approach can be framed as follows: 1) Users of same-time different-place collaborative systems must exchange certain types coordination specific information; 2) We can facilitate t ...

Keywords: computer supported cooperative work, planning and plan recognition, user interface design

39 Full papers: Iterative record linkage for cleaning and integration

Indrajit Bhattacharya, Lise Getoor

June 2004 **Proceedings of the 9th ACM SIGMOD workshop on Research issues in data mining and knowledge discovery****Publisher:** ACM PressFull text available: pdf(264.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Record linkage, the problem of determining when two records refer to the same entity, has applications for both data cleaning (deduplication) and for integrating data from multiple sources. Traditional approaches use a similarity measure that compares tuples' attribute values; tuples with similarity scores above a certain threshold are declared to be matches. While this method can perform quite well in many domains, particularly domains where there is not a large amount of noise in the data, in ...

Keywords: clustering, deduplication, distance measure, record linkage**40** Tree approximation for belief updating

Robert Mateescu, Rina Dechter, Kalev Kask

July 2002 **Eighteenth national conference on Artificial intelligence****Publisher:** American Association for Artificial IntelligenceAdditional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The paper presents a parameterized approximation scheme for probabilistic inference. The scheme, called *Mini-Clustering (MC)*, extends the partition-based approximation offered by mini-bucket elimination, to tree decompositions. The benefit of this extension is that all single-variable beliefs are computed (approximately) at once, using a two-phase message-passing process along the cluster tree. The resulting approximation scheme allows adjustable levels of accuracy and eff ...

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41 [Research track papers: Interestingness of frequent itemsets using Bayesian networks as background knowledge](#)

Szymon Jaroszewicz, Dan A. Simovici

 August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**

Publisher: ACM Press

Full text available: [pdf\(191.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The paper presents a method for pruning frequent itemsets based on background knowledge represented by a Bayesian network. The interestingness of an itemset is defined as the absolute difference between its support estimated from data and from the Bayesian network. Efficient algorithms are presented for finding interestingness of a collection of frequent itemsets, and for finding all attribute sets with a given minimum interestingness. Practical usefulness of the algorithms and their efficiency ...

Keywords: Bayesian network, association rule, background, frequent itemset, interestingness, knowledge

42 [Computer security \(SEC\): Naive Bayes vs decision trees in intrusion detection systems](#)

Nahla Ben Amor, Salem Benferhat, Zied Elouedi

 March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: [pdf\(235.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Bayes networks are powerful tools for decision and reasoning under uncertainty. A very simple form of Bayes networks is called naive Bayes, which are particularly efficient for inference tasks. However, naive Bayes are based on a very strong independence assumption. This paper offers an experimental study of the use of naive Bayes in intrusion detection. We show that even if having a simple structure, naive Bayes provide very competitive results. The experimental study is done on KDD'99 intrusion ...

43 [Query evaluation techniques for large databases](#)

Goetz Graefe

 June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: [pdf\(9.37 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be

required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

44 Quality of service transferred to information retrieval: the adaptive information retrieval system



Claudia Rolker, Ralf Kramer

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(665.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Users often quit an information retrieval system (IR system) very frustrated, because they cannot find the information matching their information needs. We have identified the following two main reasons: too high expectations and wrong use of the system. Our approach which addresses both issues is based on the transfer of the concept of Quality of Service to IR systems: The user first negotiates the retrieval success rates with the IR system, so he knows what to expect from the system in ad ...

Keywords: adaptation, information retrieval, precision, quality of service (QoS), query reformulation, recall, retrieval success rates

45 Information systems security design methods: implications for information systems development



Richard Baskerville

December 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(3.44 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The security of information systems is a serious issue because computer abuse is increasing. It is important, therefore, that systems analysts and designers develop expertise in methods for specifying information systems security. The characteristics found in three generations of general information system design methods provide a framework for comparing and understanding current security design methods. These methods include approaches that use checklists of controls, divide functional req ...

Keywords: checklists, control, integrity, risk analysis, safety, structured systems analysis and design, system modeling

46 Technique for automatically correcting words in text



Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(6.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general

and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

47 Research track papers: A Bayesian network framework for reject inference



Andrew Smith, Charles Elkan

August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**

Publisher: ACM Press

Full text available: pdf(201.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Most learning methods assume that the training set is drawn randomly from the population to which the learned model is to be applied. However in many applications this assumption is invalid. For example, lending institutions create models of who is likely to repay a loan from training sets consisting of people in their records to whom loans were given in the past; however, the institution approved loan applications previously based on who was thought unlikely to default. Learning from only appro ...

Keywords: Bayesian networks, Heckman estimator, expectation-maximization, propensity scores, reject inference, sample selection bias

48 Optimality of universal Bayesian sequence prediction for general loss and alphabet



Marcus Hutter

December 2003 **The Journal of Machine Learning Research**, Volume 4

Publisher: MIT Press

Full text available: pdf(397.60 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Various optimality properties of universal sequence predictors based on Bayes-mixtures in general, and Solomonoff's prediction scheme in particular, will be studied. The probability of observing x_t at time t , given past observations $x_1 \dots x_{t-1}$ can be computed with the chain rule if the true generating distribution μ of the sequences $x_1 x_2 x_3 \dots$ is known. If μ is unk ...

49 User modeling II: Evaluating adaptive user profiles for news classification



Ricardo Carreira, Jaime M. Crato, Daniel Gonçalves, Joaquim A. Jorge

January 2004 **Proceedings of the 9th international conference on Intelligent user interface**

Publisher: ACM Press

Full text available: pdf(132.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Never before have so many information sources been available. Most are accessible on-line and some exist on the Internet alone. However, this large information quantity makes interesting articles hard to find. Modern Personal Digital Assistants (PDAs), mobile phones, and the advent of ubiquitous computing will further complicate matters. Away from the desktop, the time to select important articles might be even harder to find. Strategies to select relevant information are sorely needed. One such ...

Keywords: bayesian classifier, content-based filter, mobile and ubiquitous computing, user profiles

50 Content-based retrieval: Knowing a tree from the forest: art image retrieval using a society of profiles



Kai Yu, Wei-Ying Ma, Volker Tresp, Zhao Xu, Xiaofei He, HongJiang Zhang, Hans-Peter Kriegel

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Publisher: ACM Press

Full text available:  pdf(913.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper aims to address the problem of art image retrieval (AIR), which aims to help users find their favorite painting images. AIR is of great interests to us because of its application potentials and interesting research challenges---the retrieval is not only based on painting contents or styles, but also heavily based on user *preference profiles*. This paper describes the collaborative ensemble learning, a novel statistical learning approach to this task. It at first applies probabil ...

Keywords: art image retrieval, collaborative ensemble learning

51 The computation of optical flow



S. S. Beauchemin, J. L. Barron

September 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 3

Publisher: ACM Press

Full text available:  pdf(3.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Two-dimensional image motion is the projection of the three-dimensional motion of objects, relative to a visual sensor, onto its image plane. Sequences of time-ordered images allow the estimation of projected two-dimensional image motion as either instantaneous image velocities or discrete image displacements. These are usually called the optical flow field or the image velocity field. Provided that optical flow is a reliable approximation to two-dimensional ...

52 An evaluation of statistical spam filtering techniques



Le Zhang, Jingbo Zhu, Tianshun Yao

December 2004 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available:  pdf(343.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper evaluates five supervised learning methods in the context of statistical spam filtering. We study the impact of different feature pruning methods and feature set sizes on each learner's performance using cost-sensitive measures. It is observed that the significance of feature selection varies greatly from classifier to classifier. In particular, we found support vector machine, AdaBoost, and maximum entropy model are top performers in this evaluation, sharing similar characteristics: ...

Keywords: Spam filtering, text categorization

53 Survey articles: Data mining for hypertext: a tutorial survey



Soumen Chakrabarti

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.19 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

With over 800 million pages covering most areas of human endeavor, the World-wide Web is a fertile ground for data mining research to make a difference to the effectiveness of information search. Today, Web surfers access the Web through two dominant interfaces: clicking on hyperlinks and searching via keyword queries. This process is often tentative and unsatisfactory. Better support is needed for expressing one's information need and dealing with a search result in more structured ways than av ...

54 A survey of data mining and knowledge discovery software tools



Michael Goebel, Le Gruenwald

June 1999 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 1



Publisher: ACM Press

Full text available: pdf(1.28 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Knowledge discovery in databases is a rapidly growing field, whose development is driven by strong research interests as well as urgent practical, social, and economical needs. While the last few years knowledge discovery tools have been used mainly in research environments, sophisticated software products are now rapidly emerging. In this paper, we provide an overview of common knowledge discovery tasks and approaches to solve these tasks. We propose a feature classification scheme that can be ...

Keywords: data mining, knowledge discovery in databases, surveys

55 Adaptive middleware for context-aware applications in smart-homes



Markus C. Huebscher, Julie A. McCann

October 2004 **Proceedings of the 2nd workshop on Middleware for pervasive and ad-hoc computing**

Publisher: ACM Press

Full text available: pdf(323.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose an adaptive middleware design for context-aware applications that abstracts the applications from the sensors that provide context. Further, we use application-specific utility functions to choose, given multiple alternatives for providing a specific context, one alternative at any time that provides the context for all applications, whilst maximising the applications' total "satisfaction" with the quality of context from the chosen provider. Our middleware also implements autonomi ...

Keywords: adaptive distributed service provision, context-awareness

56 ISIS: an adaptive, trilingual conversational system with interleaving interaction and delegation dialogs



Helen Meng, P. C. Ching, Shuk Fong Chan, Yee Fong Wong, Cheong Chat Chan

September 2004 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 11 Issue 3

Publisher: ACM Press

Full text available: pdf(3.71 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

ISIS (Intelligent Speech for Information Systems) is a trilingual spoken dialog system (SDS) for the stocks domain. It handles two dialects of Chinese (Cantonese and Putonghua) as well as English---the predominant languages in our region. The system supports spoken language queries regarding stock market information and simulated personal portfolios. The conversational interface is augmented with a screen display that can capture mouse-clicks as well as textual input by typing or stylus-writing. ...

Keywords: Human-computer spoken language interface, interaction and delegation dialogs

57 Short papers: personal assistants: Adaptive teaching strategy for online learning



Jungsoo Yoo, Cen Li, Chrisila Pettey

January 2005 **Proceedings of the 10th international conference on Intelligent user interfaces**

Publisher: ACM Press

Full text available: pdf(216.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Finding the optimal teaching strategy for an individual student is difficult even for an experienced teacher. Identifying and incorporating multiple optimal teaching strategies for different students in a class is even harder. This paper presents an Adaptive tutor for online Learning, AtoL, for Computer Science laboratories that identifies and applies the

appropriate teaching strategies for students on an individual basis. The optimal strategy for a student is identified in two steps. First, a b ...

Keywords: adaptive user interface, intelligent tutoring system, personalization, user modeling

58 Introduction to Bayesian learning



Aaron Hertzmann

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(899.54 KB) Additional Information: [full citation](#), [abstract](#)

Sophisticated computer graphics applications require complex models of appearance, motion, natural phenomena, and even artistic style. Such models are often difficult or impossible to design by hand. Recent research demonstrates that, instead, we can "learn" a dynamical and/or appearance model from captured data, and then synthesize realistic new data from the model. For example, we can capture the motions of a human actor and then generate new motions as they might be performed by that actor. B ...

59 Special issue on learning from imbalanced datasets: Minority report in fraud detection: classification of skewed data



Clifton Phua, Daminda Alahakoon, Vincent Lee

June 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 1

Publisher: ACM Press

Full text available: pdf(262.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper proposes an innovative fraud detection method, built upon existing fraud detection research and *Minority Report*, to deal with the data mining problem of skewed data distributions. This method uses backpropagation (BP), together with naive Bayesian (NB) and C4.5 algorithms, on data partitions derived from minority oversampling with replacement. Its originality lies in the use of a single meta-classifier (stacking) to choose the best base classifiers, and then combine these base ...

Keywords: fraud detection, meta-learning, multiple classifier systems

60 Biclustering Algorithms for Biological Data Analysis: A Survey



Sara C. Madeira, Arlindo L. Oliveira

January 2004 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 1 Issue 1

Publisher: IEEE Computer Society Press

Full text available: pdf(1.28 MB) Additional Information: [full citation](#), [references](#), [citations](#)

Keywords: Biclustering, simultaneous clustering, coclustering, subspace clustering, bidimensional clustering, direct clustering, block clustering, two-way clustering, two-mode clustering, two-sided clustering, microarray data analysis, biological data analysis, gene expression data.

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